

# C4ISR ACCELERATION SYMPOSIUM

19.SEP.07



**MG JEFF SORENSON**

CALL TO DUTY: BOOTS ON THE GROUND – ARMY STRONG





# Agenda



- ★ **Complex Operating Environment**
- ★ **Army Initiatives**
- ★ **CIO/G-6 500-Day Plan**
- ★ **Top 6**
- ★ **Conclusion**





# Complex Operating Environments



**MEDIA**

EXTENDED BORDERS

"FENCE SITTERS"

**PHYSICAL**

**INFORMATION**

EXTENDED DISTANCES

**HUMAN**



**IDEOLOGICAL  
CULTURAL**

**NETWORKS**

***"The prize in the counterinsurgency fight is...the people."*** – COL Sean MacFarland, CDR, 1-1 AD, 1 May 2007





# Persistent Conflict



***“persistent conflict*** ... a period of protracted confrontation among state, non-state, and individual actors who will increasingly use violence as a means of achieving their political and ideological objectives...

This protracted confrontation will be ***fueled by six important trends***...

- ...positive and negative impact of globalization
- ...competition for energy
- ...demographic trends increase instability
- ...climate changes and natural disasters
- ...proliferation of weapons of mass destruction
- ...failed or failing states providing safe havens”



General George Casey, CSA  
National Press Club, 14 Aug 07



# Identified Future Force Gaps

- ***Modular, Scalable and Tailorable Battle Command and Control***
- ***Dynamic, Uninterrupted Communications Network***
- ***Ability to Train the Force How and As it Fights***





# 7 Army Initiatives

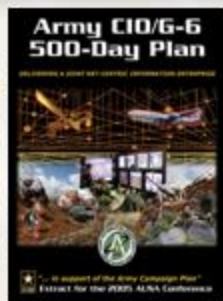
1. Accelerate growth and readiness improvements
2. Enhance the quality of support to Soldiers, civilians and families
3. Sustain the momentum of modernization
4. Complete reserve component transition to an operational force
5. Improve leader development to grow leaders for tomorrow's strategic environment
6. Adapt Army institutions to support an expeditionary Army at war
7. Build strategic communication capabilities to effectively communicate with internal and external audiences



# CIO/G-6 500-Day Plan



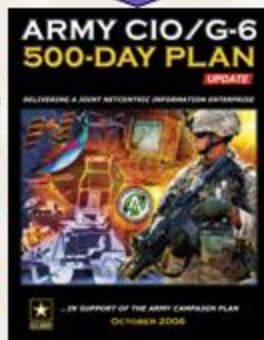
2005



- Vision: Deliver a Joint Net-Centric Info Enterprise
- Established six Strategic Goals



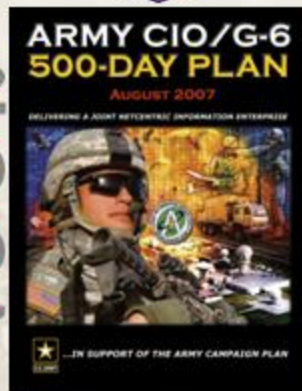
2006



- Provided major accomplishments and way ahead
- Delineated Future Challenges for the six Strategic Goals



2007



- Sets expectations with five rolling 100-day increments and measurable criteria for each Strategic Goal
- <http://www.army.mil/ciog6/>





# Top 6



## Soldiers







# AVERAGE SOLDIER PROFILE



RANK: E-4 (Corporal / Specialist)

AGE: 22

TIME IN SERVICE: 4 Years

BASE PAY: \$1,978.50/month

EDUCATION: High School Graduate

MARITAL STATUS: Married w/ two Children

RACE: 60% Caucasian/40% Minority

GENDER: 85% Male/15% Female

AVERAGE WORK DAY: When the mission is complete



WKYS – 93.9 FM

Nationally Syndicated

Interview with:

SSG Jamie Aparicio

&

1LT Christianna Bagby

3d Signal Brigade







# Top 6



 **Soldiers**

 **Technology Integration**  
**... No Longer Business as Usual**





# No Longer Business As Usual



Pre-9/11

2003

2007...

MSE

WIN-T

CPOF

JNN

JIOC-I/DCGS-A

TACTICOMP

TIGRNET

HIDE

etc...

The Army is flat...  
...Comms...Intel...SA  
User "owned &  
operated" at ever  
quickenning pace...





# Top 6



 **Soldiers**

 **Technology Integration**

 **Infrastructure Modernization**

**... Fixed Regional Hub Nodes**

**... Area Processing Centers**





# Fixed Regional Hub Nodes

- Five locations to provide complete & overlapping coverage of Combatant Command Areas of Responsibility (AOR)
  - All connected to the Global Information Grid (GIG)
  - Focus on Intertheater vs. Reachback via Teleports
  - Support Army/USMC Units & Comm-on-the-Move

## Fixed Regional Hub Nodes (FRHN) 5 Planned Locations World Wide

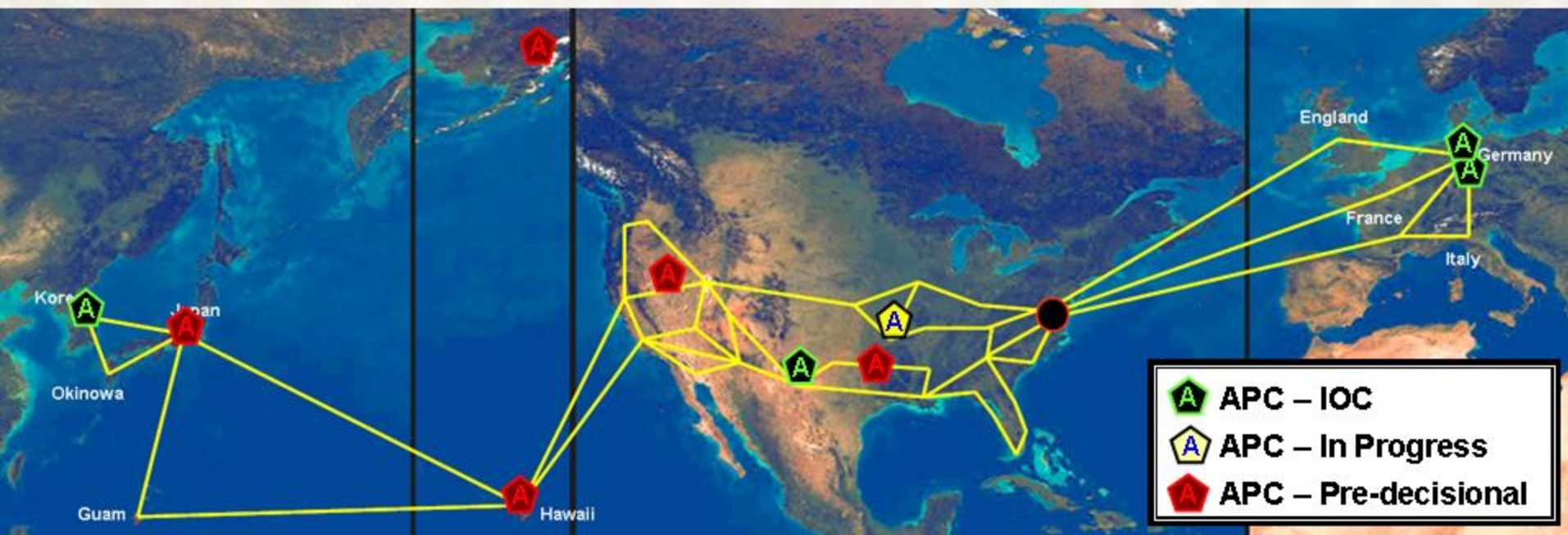






# Area Processing Centers

- The purpose of the APC initiative is to improve delivery services through:
- Achieving Net-Centric Operations and Warfare Environment
  - Improving IA and Security Posture
  - Reducing Total Cost of Ownership (TCO) for Information Technology





# Top 6



**Soldiers**



**Technology Integration**



**Infrastructure Modernization**



**Network Security**

**... CONUS Signal Command (Theater)**

**... IT Security Way Ahead**







# CONUS Signal Command (Theater)

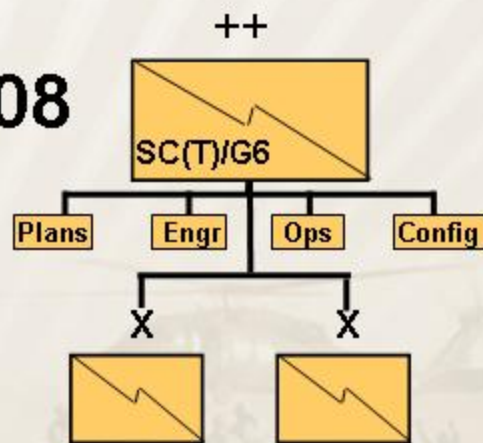


## ★ CONUS SC(T) with HQs & 2 Brigades

- Single Commander responsible for operation & defense of CONUS LandWarNet
- Provides improved ability to dynamically adjust network priorities & availability
- Enhances ability of expeditionary forces to rehearse as they fight, transition, and maintain OPTEMPO across all phases

## ★ Phased activation beginning in FY08

- CADRE – 16 May 2008
- IOC – 16 January 2009
- FOC – 16 January 2010





# IT Security Way Ahead

Microsoft Enterprise License

Active Directory

Secure the  
Operating  
System

GSA  
Smart Card

CAC/PKI Logins

Army @  
94% \*\*

GSA U.S. General Services Administration

Server 2003

Server 2008



Asset Discovery Tool

Encrypt E-mail

Encrypt Data at Rest

Consolidate APCs - - DISA Mega Centers

Thin-Client

\*\* W/S CAC Enabled

19 September 2007

CALL TO DUTY: BOOTS ON THE GROUND - ARMY STRONG

18





# Top 6



**Soldiers**



**Technology Integration**



**Infrastructure Modernization**



**Network Security**

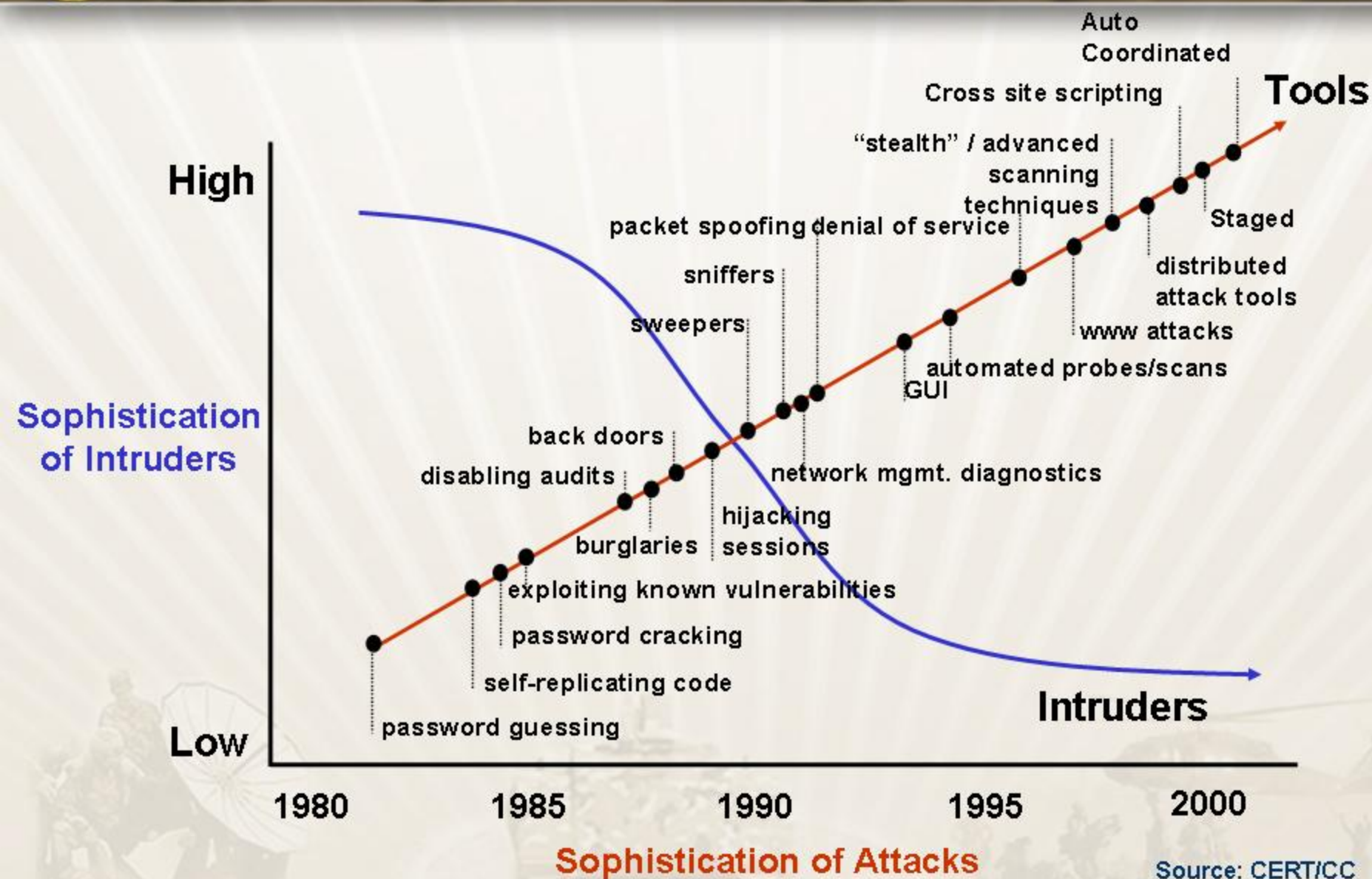


**Cyberwarfare**





# Growth of Threat Capability







# The Cyberspace Domain



## Working Definition of Cyberspace:

**“A domain characterized by the use of electronics and the electromagnetic spectrum to store, modify, and exchange data via networked systems and associated physical infrastructures”**

- ★ **Cyberspace domain is analogous to air, land, sea, & space domains**
- ★ **Cyberspace is a place where DoD must be ready and capable to fight**
- ★ **Cyberspace is global: erases time/space constraints; access straightforward**
- ★ **Successful operations require: awareness, speed, integration**
- ★ **Requires similar components—infrastructure, capabilities, resources**

– Source: National Military Strategy for Cyberspace Operations, Joint Staff/J-6



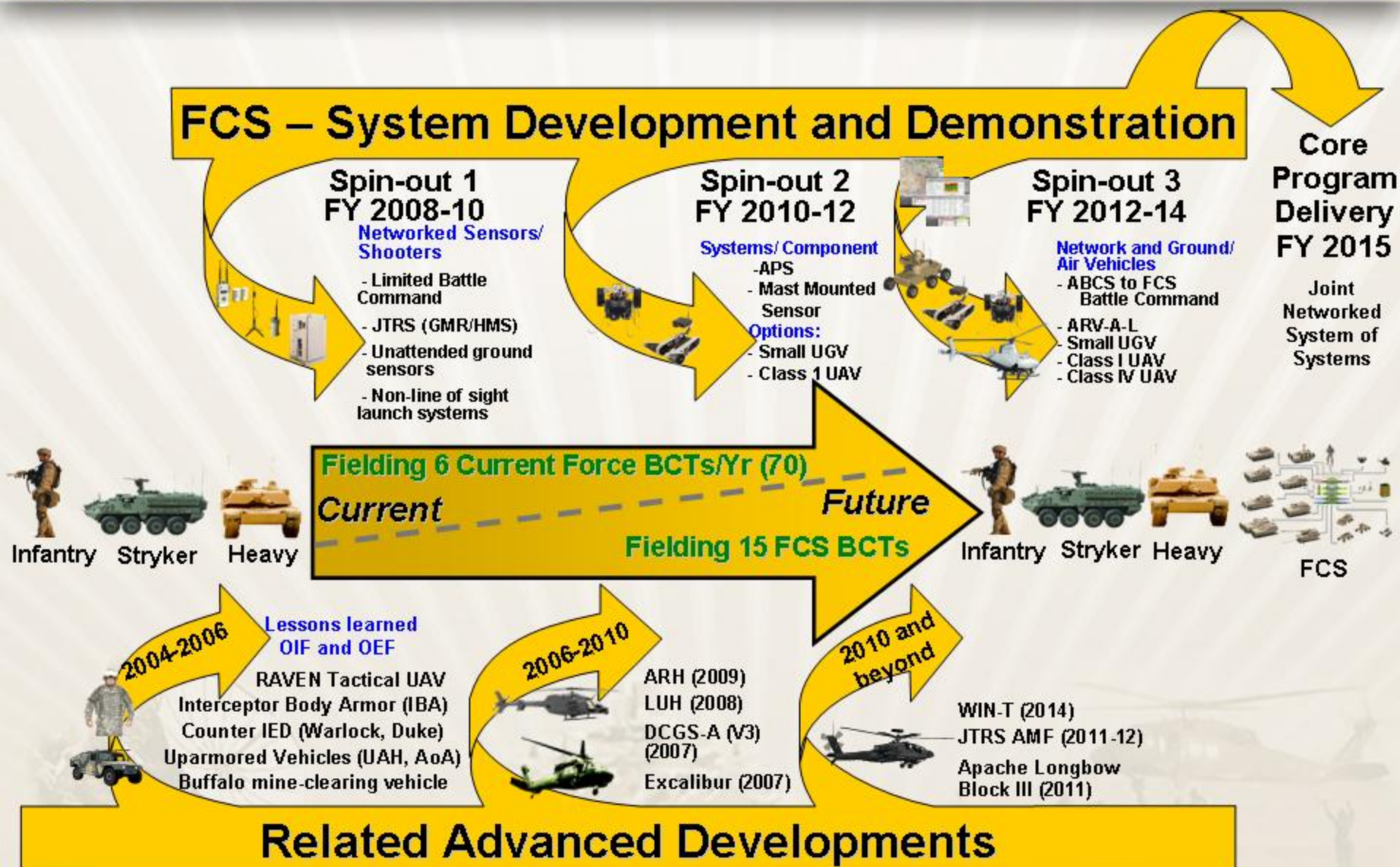
# Top 6



-  Soldiers
-  Technology Integration
-  Infrastructure Modernization
-  Network Security
-  Cyberwarfare
-  **ABCS ➡ FCS**















# Take Aways!!!



-  **Posturing for Persistent Conflict!!!**
-  **CIO/G-6 500 Day Plan**
-  **No Longer Business as Usual**
-  **Infrastructure Modernization**
-  **Network Security & Cyberwarfare**
-  **Current-to-Future Force**



# Questions & Thoughts

*“Army Modernization envisions both the rapid fielding of the best new equipment to our forces that are fighting every day and future combat systems. We are ultimately working toward an agile, globally responsive Army empowered by modern networks, surveillance sensors, and weapons that are lighter and less manpower-intensive, and employed in modular units that are able to operate effectively, again across the spectrum of conflict with joint and coalition partners.”*

-- CSA General George Casey  
Remarks National Press Club  
14 August 2007





**Army Strong!**